

WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY
LETTERS PATENT OF THE UNITED STATES IS:

1. An impingement flow for a wall part (3), in
which a plurality of impingement orifices (2) are
5 arranged areally in a plane or curved carrier (1), the
carrier being arranged at a distance from the wall
part, and the impingement area, to be cooled or heated,
of the wall part (3) being designed as a relief,
wherein

- that side of the wall part (3) which faces the
impingement jet is provided with a number of troughs
(4) arranged next to one another, at least one
impingement jet per trough (4) being provided, which
impingement jet strikes the trough base at least
15 approximately perpendicularly, and

- that side of the wall part (3) which is remote
from the impingement jet is of at least roughly plane
design.

2. The impingement flow as claimed in claim 1,
20 wherein the trough (4) has the shape of a circle
segment or of a base area related thereto.

3. The impingement flow as claimed in claim 2,
wherein the trough is of rotationally symmetrical or
longitudinally extended design.

25 4. The impingement flow as claimed in claim 1,
wherein the wall part (3) is connected indirectly or
directly to the carrier (1) via webs (7) formed between
the troughs (4).

5. The impingement flow as claimed in claim 1,
30 wherein the wall part (3) to be cooled or heated is
made together with the troughs (4) as a casting.

6. The impingement flow as claimed in claim 1,
wherein the impingement orifices (2) form the inlet (2)
of impingement tubes (21), the mouth (23) of which is
35 directed toward the wall part (3) to be cooled or
heated.

10002633-120501

Sub
2.1

Sub
2.9